

**Grilamid LBV-25H black 9472**

PA12

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product nomenclature acc. ISO 1874: PA 12+X, MHR, 18-060, GF25

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>6000 / 5800</b>	MPa	ISO 527-1/-2
Stress at break	<b>115 / 110</b>	MPa	ISO 527-1/-2
Strain at break	<b>3 / 3</b>	%	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>75 / 60</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>15 / 11</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>9 / 8</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness (15s)	<b>82 / 82</b>	-	ISO 868

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	<b>178 / -</b>	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	<b>140 / -</b>	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	<b>65 / -</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	<b>30 / -</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>110 / -</b>	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	<b>HB / -</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8 / -</b>	mm	IEC 60695-11-10
Max. usage temperature (long term)	<b>90 - 110</b>	°C	ISO 2578
Max. usage temperature (short term)	<b>140</b>	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	<b>1E11 / 1E11</b>	Ohm*m	IEC 60093
Surface resistivity	<b>- / 1E12</b>	Ohm	IEC 60093
Electric strength	<b>32 / 32</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>600 / 600</b>	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>1.1 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.6 / -</b>	%	Sim. to ISO 62
Density	<b>1190 / -</b>	kg/m <sup>3</sup>	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	<b>0.1 / -</b>	%	ISO 294-4, 2577
Molding shrinkage (normal)	<b>0.5 / -</b>	%	ISO 294-4, 2577

**Characteristics**

**Processing**

Injection Molding

**Automotive**

Interior, Exterior

**Delivery form**

Granules

**Electricals & Electronics**

Mobile phones and other portable devices

**Special Characteristics**

Light stabilized or stable to light

**Industry & Consumer goods**

Sports & Leisure